UNITED STATES PATENT AND TRADEMARK OFFICE

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/621,928	07/17/2003	Michael Gilfix	AUS920030395US1	8413

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EXAMINER
HOFFMAN, BRANDON S

ART UNIT	PAPER NUMBER
2136	

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Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

PTOL-90A (Rev. 04/07)

		Application No.	Applicant(s)
Office Action Summary		10/621,928	GILFIX ET AL.
		Examiner	Art Unit	
		Brandon S. Hoffman	2136	

-- *The MAILING DATE of this communication appears on the cover sheet with the correspondence address* --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE <u>3</u> MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.
- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
  Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

1)☒ Responsive to communication(s) filed on <u>07 August 2007</u>.

2a)☒ This action is **FINAL**.   2b)☐ This action is non-final.

3)☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

4)☒ Claim(s) <u>1-20</u> is/are pending in the application.

    4a) Of the above claim(s) _____ is/are withdrawn from consideration.

5)☐ Claim(s) _____ is/are allowed.

6)☒ Claim(s) <u>1-20</u> is/are rejected.

7)☐ Claim(s) _____ is/are objected to.

8)☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

9)☐ The specification is objected to by the Examiner.

10)☐ The drawing(s) filed on _____ is/are: a)☐ accepted or b)☐ objected to by the Examiner.

    Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).

    Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).

11)☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

12)☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).

    a)☐ All   b)☐ Some * c)☐ None of:

      1.☐ Certified copies of the priority documents have been received.

      2.☐ Certified copies of the priority documents have been received in Application No. _____.

      3.☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

    * See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

1)☐ Notice of References Cited (PTO-892)
2)☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3)☐ Information Disclosure Statement(s) (PTO/SB/08)
    Paper No(s)/Mail Date _____.

4)☐ Interview Summary (PTO-413)
    Paper No(s)/Mail Date. _____ .
5)☐ Notice of Informal Patent Application
6)☐ Other: _____ .

DETAILED ACTION

1.   Claims 1-20 are pending in this office action.

2.   Applicant's arguments, filed August 7, 2007, have been fully considered but they

are not persuasive.

Claim Rejections

3.   The text of those sections of Title 35, U.S. Code not included in this action can

be found in a prior Office action.

Claim Rejections - 35 USC § 103

4.   <u>Claims 1-20</u> are rejected under 35 U.S.C. 103(a) as being unpatentable over

<u>Juels et al.</u> (U.S. Patent Pub. No. 2002/0029341) in view of <u>Zilberman</u> (U.S. Patent No.

6,442,692).

Regarding <u>claims 1, 9, and 15</u>, <u>Juels et al.</u> teaches a method/system/computer

program product of detecting intrusion attempts on a computing system, comprising the

steps of:

- Creating a first mapping profile of a valid password, **and the first mapping**

  profile is dependent upon characters of the valid password (fig. 9 and 13);

- Storing the mapping profile in memory (paragraph 0111);

- Creating a second mapping profile of an entered password, **the second mapping profile is dependent upon characters of the entered password** (fig. 9 and 15, ref. num 1510-1524);

- Calculating a profile score by comparing the first mapping profile to the second mapping profile (fig. 15, ref. num 1526);

- Comparing the profile score to a threshold value (fig. 15, ref. num 1530); and

- Classifying the entered profile into one of two or more security classifications based upon the comparison between the profile score and the threshold value (fig. 15, ref. num 1580).

Juels et al. does not teach **wherein the valid password is entered on a keyboard** or **wherein the entered password is entered on the keyboard.**

Zilberman teaches **wherein the valid password is entered on a keyboard** and **wherein the entered password is entered on the keyboard** (table 4 and table 5 and fig. 4, input port).

It would have been obvious to one of ordinary skill in the art, at the time the invention was made, to combine comparing successive keyboard inputs, as taught by Zilberman, with the method/system/computer program of Juels et al. It would have been obvious for such modifications because it is important not only to get the right

character inputs from the keyboard, but also get the right order. A password of "mypass1" is not acceptable if "py1sams" is entered.

Regarding claims 2, 10, and 16, Juels et al. as modified by Zilberman teaches wherein at least one of the security classifications represents an intrusion attempt on the computing system (see paragraph 0147-0149 of Juels et al.).

Regarding claims 3, 11, and 17, Juels et al. as modified by Zilberman teaches wherein the first mapping step and the second mapping step each comprise the steps of:

- Comparing successive characters of the respective password (see table 4 of Zilberman);

- Assigning a value to each pair of successive characters based upon a keyboard characteristic corresponding to the pair of successive characters (see table 5 of Zilberman); and

- Generating a password mapping for the respective password based upon the assigned value (see fig. 1 of Zilberman).

Regarding claims 4, 12, and 18, Juels et al. as modified by Zilberman teaches wherein the keyboard characteristic is the distance between the keys of the keyboard representing the pair of characters (see fig. 9 and 10 of Juels et al.).

Regarding claims 5, 13, and 19, Juels et al. as modified by Zilberman teaches wherein the keyboard characteristic is the likelihood that one of the pair of characteristics is typed on a keyboard when the other key of the pair is intended to be typed (see paragraph 0019 of Juels et al.).

Regarding claims 6, 14, and 20, Juels et al. as modified by Zilberman teaches wherein the second mapping step further comprise the step of:

- Comparing the valid password to the entered password (see fig. 15, ref. num 1580 of Juels et al.); and

- Determining when a pair of characters in the entered password are a transposition of a corresponding pair of letters in the valid password (see paragraph 0018 of Juels et al.); and

- When there is a transposition, adjusting the profile score (see paragraph 0019 of Juels et al.).

Regarding claim 7, Juels et al. as modified by Zilberman teaches wherein the computing system is a personal computer (see paragraph 0028 of Juels et al.).

Regarding claim 8, Juels et al. as modified by Zilberman teaches wherein the computing system is a telephone voice response system (see fig. 14, ref. num 1460 of Juels et al.).

Response to Arguments

5.   Applicant argues:

a.   Juels et al. does not teach a keyboard-based password entry system and therefore cannot teach the claimed limitations (page 9 last paragraph through page 10, second paragraph).

b.   Zilberman does not teach creating a mapping based on the characters of the keyboard (page 10, third paragraph through page 11, first paragraph).

Regarding argument (a), examiner disagrees with applicant. First, this limitation is newly added and therefore is moot. Second, the new rejection, a 103 with Juels et al. and Zilberman, teaches keyboard-based password entry. Third, the graphical input of Juels et al. converts the graphical symbol into a concrete, clearly defined value (see paragraph 0020 of Juels et al.)

Regarding argument (b), examiner disagrees with applicant. Juels et al. teaches mapping based on the graphical inputs of the user. Zilberman teaches inputting using a keyboard. The combination of Juels et al. and Zilberman teaches inputting using a keyboard and the inputted data is mapped based on the data that is input.

Conclusion

6.   **THIS ACTION IS MADE FINAL.** See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE

MONTHS from the mailing date of this action. In the event a first reply is filed within

TWO MONTHS of the mailing date of this final action and the advisory action is not

mailed until after the end of the THREE-MONTH shortened statutory period, then the

shortened statutory period will expire on the date the advisory action is mailed, and any

extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of

the advisory action. In no event, however, will the statutory period for reply expire later

than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Brandon S. Hoffman whose telephone number is 571-

272-3863. The examiner can normally be reached on M-F 8:30 - 5:00.
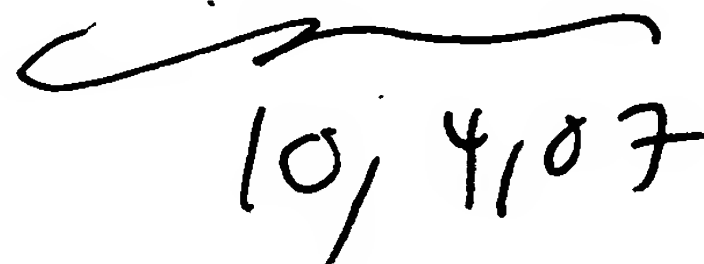
If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Nasser G. Moazzami can be reached on 571-272-4195. The fax phone

number for the organization where this application or proceeding is assigned is 571-

273-8300.

Information regarding the status of an application may be obtained from the

Patent Application Information Retrieval (PAIR) system. Status information for

published applications may be obtained from either Private PAIR or Public PAIR.

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USPTO Customer Service Representative or access to the automated information

system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Brandon Hoffman/

BH

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